SEQUENCE LISTING

<110> Thomashow, Linda S.
Delaney, Shannon M.
Mavrodi, Dmitri V.
Weller, David M.

<120> Sequences Encoding PhzO and Methods

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<150> US 60/236,634

<151> 2000-09-29

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<170> PatentIn version 3.1

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1 5

aaa tat ctg aaa agt gca gaa tcc ttc aaa gct tca ctg cgt gat aac 160
Lys Tyr Leu Lys Ser Ala Glu Ser Phe Lys Ala Ser Leu Arg Asp Asn
10 15 20

cgc act gtt att tat caa ggc caa gtt gtt gag gat gtg act aca cac 208
Arg Thr Val Ile Tyr Gln Gly Gln Val Val Glu Asp Val Thr Thr His
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Phe Ser Thr Ala Gly Gly Ile Ser Gln Val Ala Glu Ile Tyr Glu Glu
45 50 55

caa ttc agc ggt gaa cac gac gac att ctg act tac gta cgc ccc gac 304
Gln Phe Ser Gly Glu His Asp Asp Ile Leu Thr Tyr Val Arg Pro Asp
60 65 70

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Gly Tyr Leu Ala Ser Ser Ala Tyr Met Pro Pro Arg Asn Lys Glu Asp
75 80 85

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Leu Ala Ser Arg Arg Arg Ala Ile Met Tyr Val Ser Gln Lys Thr Trp
    90                  95                  100

ggc acc cac tgc cgt aac ctg gac atg atc gcc agc ttc acc gtc ggc      448
Gly Thr His Cys Arg Asn Leu Asp Met Ile Ala Ser Phe Thr Val Gly
105                 110                 115                 120

atg atg gga tat ctg ccg aca ttc agg aaa aaa tgc cct gag tac gca      496
Met Met Gly Tyr Leu Pro Thr Phe Arg Lys Lys Cys Pro Glu Tyr Ala
                125                 130                 135

gaa aac att acc gaa tac cat gac tac gcc gag cgc aac agc ctg tat      544
Glu Asn Ile Thr Glu Tyr His Asp Tyr Ala Glu Arg Asn Ser Leu Tyr
            140                 145                 150

ttg tct gag acc att gtt gat cca cag ggc tat cgg gca cgt acc cac      592
Leu Ser Glu Thr Ile Val Asp Pro Gln Gly Tyr Arg Ala Arg Thr His
        155                 160                 165

ggc acc gac ctc aac ctg ccg ccg ccc gat cgt gcc gtg atg agg atc      640
Gly Thr Asp Leu Asn Leu Pro Pro Pro Asp Arg Ala Val Met Arg Ile
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aac aag cag aac gcc gag ggc atc tgg atc agc ggc gtc aaa ggc gtg      688
Asn Lys Gln Asn Ala Glu Gly Ile Trp Ile Ser Gly Val Lys Gly Val
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Gly Thr Ala Ala Pro Gln Ser Asn Glu Ile Phe Val Gly Ser Leu Phe
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Pro Gly Val Lys Ile Phe Cys Arg Glu Ile Val Ser Gln Pro His Ala
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agc gcc tat gac cac ccg ctc ata tcc aaa ggt gaa gaa gcc gag gcg      880
Ser Ala Tyr Asp His Pro Leu Ile Ser Lys Gly Glu Glu Ala Glu Ala
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Met Val Val Phe Asp Asn Val Phe Ile Pro Arg Trp Arg Ile Met Ala
265                 270                 275                 280

gcg aac gtg ccg gaa ctg gcc agc gcc ggc ttc ttc agt ctg tgg acc      976
Ala Asn Val Pro Glu Leu Ala Ser Ala Gly Phe Phe Ser Leu Trp Thr
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tca tac agc cat tgg tac acg ctc gtg cgc ctg gaa acc aag gct gac     1024
Ser Tyr Ser His Trp Tyr Thr Leu Val Arg Leu Glu Thr Lys Ala Asp
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ctg tat gcc gga ctg gcc aag gtg atc atg gaa gtc ctg ggc ctt gag     1072
Leu Tyr Ala Gly Leu Ala Lys Val Ile Met Glu Val Leu Gly Leu Glu
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ggg att gcg gtg gtt cgc cag cgg gtc agc gaa ata gtg cag ctt gcg     1120
Gly Ile Ala Val Val Arg Gln Arg Val Ser Glu Ile Val Gln Leu Ala
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Ser Asp Gly Asp Ile Leu Leu Pro Gly His Asn Ala Leu Ala Ala Gly
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agg gtt ttt gcc atg gag aaa ttg cct cgg gtg ctg cat ttg ctc aga    1264
Arg Val Phe Ala Met Glu Lys Leu Pro Arg Val Leu His Leu Leu Arg
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Glu Leu Cys Gly Gln Gly Leu Ile Leu Arg Phe Asn Glu Lys Asp Leu
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Ala Ala Asp Ala Ala Phe Gly Gln Lys Phe Ser Trp Phe Leu Asp Thr
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Gln His Ala Leu Ser Glu Pro Leu Leu Arg Asp Asn Leu Val Leu Asp
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tac gac tac cgc gaa agc aca agc ctg ata cgc cgc cta gtg ggg ctc    1552
Tyr Asp Tyr Arg Glu Ser Thr Ser Leu Ile Arg Arg Leu Val Gly Leu
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Ile Leu Thr Tyr Val Arg Pro Asp Gly Tyr Leu Ala Ser Ser Ala Tyr
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Met Pro Pro Arg Asn Lys Glu Asp Leu Ala Ser Arg Arg Arg Ala Ile
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Met Tyr Val Ser Gln Lys Thr Trp Gly Thr His Cys Arg Asn Leu Asp
            100                 105                 110

Met Ile Ala Ser Phe Thr Val Gly Met Met Gly Tyr Leu Pro Thr Phe
        115                 120                 125

Arg Lys Lys Cys Pro Glu Tyr Ala Glu Asn Ile Thr Glu Tyr His Asp
    130                 135                 140

Tyr Ala Glu Arg Asn Ser Leu Tyr Leu Ser Glu Thr Ile Val Asp Pro
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Gln Gly Tyr Arg Ala Arg Thr His Gly Thr Asp Leu Asn Leu Pro Pro
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225                 230                 235                 240

Glu Ile Val Ser Gln Pro His Ala Ser Ala Tyr Asp His Pro Leu Ile
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Ser Lys Gly Glu Glu Ala Glu Ala Met Val Val Phe Asp Asn Val Phe
            260                 265                 270

Ile Pro Arg Trp Arg Ile Met Ala Ala Asn Val Pro Glu Leu Ala Ser
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Ala Gly Phe Phe Ser Leu Trp Thr Ser Tyr Ser His Trp Tyr Thr Leu
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355 360 365

Gly His Asn Ala Leu Ala Ala Gly Arg Val Phe Ala Met Glu Lys Leu
370 375 380

Pro Arg Val Leu His Leu Leu Arg Glu Leu Cys Gly Gln Gly Leu Ile
385 390 395 400

Leu Arg Phe Asn Glu Lys Asp Leu Ala Ala Asp Ala Ala Phe Gly Gln
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Lys Phe Ser Trp Phe Leu Asp Thr Gln Ser Val Gly Ala Arg Glu Lys
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Asn Leu Leu Met Asn Leu Val Trp Asp Val Ala Ala Ser Glu His Ser
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Thr Arg Ala Leu Val Phe Glu Glu Gln His Ala Leu Ser Glu Pro Leu
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